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- (54) CONTENT ADDRESSABLE MEMORY WITH CONFIGURABLE CLASS-BASED STORAGE **PARTITION**
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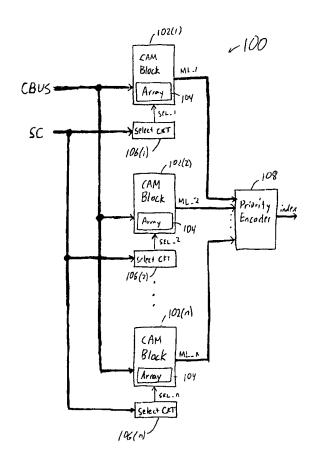
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(57)ABSTRACT

A content addressable memory (CAM) device having a plurality of CAM blocks and a block selection circuit. Each of the CAM blocks includes an array of CAM cells to store data words having a width determined according to a configuration value. The block selection circuit includes an input to receive a class code and circuitry to output a plurality of select signals to the plurality of CAM blocks. Each of the select signals selectively disables a respective one of the plurality of CAM blocks from participating in a compare operation according to whether the class code matches a class assignment of the CAM block.



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